OIPE

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/897,844A

DATE: 11/23/2001
TIME: 10:57:17

Input Set : N:\Crf3\RULE60\09897844A.RAW
Output Set: N:\CRF3\11232001\1897844A.raw

```
1 <110> APPLICANT: Cox III, George Norbert
                                                                  ENTERED
            Case, Casey Christopher
            Eisenberg, Stephen P.
    3
            Jarvis, Eric Edward
    4
            Spratt, Sharon Kaye
            Sangamo Biosciences, Inc.
      <120> TITLE OF INVENTION: Regulation of Endogenous Gene Expression in Cells
            Using Zinc Finger Proteins
    9 <130> FILE REFERENCE: 019496-002200US
    10 <140> CURRENT APPLICATION NUMBER: 09/897,844A
    11 <141> CURRENT FILING DATE: 2001-07-02
    12 <150> PRIOR APPLICATION NUMBER: US/09/229,037
    13 <151> PRIOR FILING DATE: 1999-01-12
    14 <160> NUMBER OF SEQ ID NOS: 40
    15 <170> SOFTWARE: PatentIn Ver. 2.0
    17 <210> SEQ ID NO: 1
    18 <211> LENGTH: 25
    19 <212> TYPE: PRT
    20 <213> ORGANISM: Artificial Sequence
    21 <220> FEATURE:
    22 <223> OTHER INFORMATION: Description of Artificial Sequence: exemplary motif
            of C2H2 class of zinc finger proteins (ZFP)
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    26 <222> LOCATION: (2)..(3)
    27 <223> OTHER INFORMATION: Xaa = any amino acid
    28 <220> FEATURE:
    29 <221> NAME/KEY: MOD_RES
    30 <222> LOCATION: (4)..(5)
    31 <223> OTHER INFORMATION: Xaa = any amino acid, may be present or absent
    32 <220> FEATURE:
    33 <221> NAME/KEY: MOD_RES
    34 <222> LOCATION: (7)..(18)
    35 <223> OTHER INFORMATION: Xaa = any amino acid
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    38 <222> LOCATION: (20)..(22)
    39 <223> OTHER INFORMATION: Xaa = any amino acid
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    43 <223> OTHER INFORMATION: Xaa = any amino acid, may be present or absent
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    46
             Xaa Xaa His Xaa Xaa Xaa Xaa His
W - - > 47
     48
                          20
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50 <210> SEQ ID NO: 2 51 <211> LENGTH: 10 52 <212> TYPE: DNA 53 <213> ORGANISM: Artificial Sequence 55 <223> OTHER INFORMATION: Description of Artificial Sequence: ZFP target site with two overlapping D-able subsites 56 57 <220> FEATURE: 58 <221> NAME/KEY: modified_base 59 <222> LOCATION: (1)..(2) 60 <223> OTHER INFORMATION: n = g,a,c or t 61 <220> FEATURE: 62 <221> NAME/KEY: modified_base 63 <222> LOCATION: (5) 64 <223> OTHER INFORMATION: n = g,a,c or t 65 <220> FEATURE: 66 <221> NAME/KEY: modified_base 67 <222> LOCATION: (8) 68 <223> OTHER INFORMATION: n = g,a,c or t 69 <220> FEATURE: 70 <221> NAME/KEY: modified_base 72 <223> OTHER INFORMATION: n = a,c or t; if g, then position 10 cannot be g or t 73 74 <220> FEATURE: 75 <221> NAME/KEY: modified_base 77 <223> OTHER INFORMATION: n = a or c; if g or t, then position 9 cannot be g 78 <400> SEQUENCE: 2 10 nngkngknnn W--> 79 81 <210> SEQ ID NO: 3 82 <211> LENGTH: 10 83 <212> TYPE: DNA 84 <213> ORGANISM: Artificial Sequence 86 <223> OTHER INFORMATION: Description of Artificial Sequence: ZFP target site with three overlapping D-able subsites 87 88 <220> FEATURE: 89 <221> NAME/KEY: modified_base 90 <222> LOCATION: (1)..(2) 91 <223> OTHER INFORMATION: n = g,a,c or t 92 <220> FEATURE: 93 <221> NAME/KEY: modified_base 94 <222> LOCATION: (5) 95 <223> OTHER INFORMATION: n = g,a,c or t 96 <220> FEATURE: 97 <221> NAME/KEY: modified_base 98 <222> LOCATION: (8) 99 <223> OTHER INFORMATION: n = g,a,c or t



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     108 <223> OTHER INFORMATION: Description of Artificial Sequence: linker
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      123 <210> SEQ ID NO: 6
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       135 <212> TYPE: PRT
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Input Set: N:\Crf3\RULE60\09897844A.RAW
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165 <212> TYPE: PRT
166 <213> ORGANISM: Artificial Sequence
168 <223> OTHER INFORMATION: Description of Artificial Sequence:linker
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174 <211> LENGTH: 12
175 <212> TYPE: PRT
 176 <213> ORGANISM: Artificial Sequence
 178 <223> OTHER INFORMATION: Description of Artificial Sequence: linker
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 183 <210> SEQ ID NO: 12
 184 <211> LENGTH: 16
 185 <212> TYPE: PRT
 186 <213> ORGANISM: Artificial Sequence
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  193 <210> SEQ ID NO: 13
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  195 <212> TYPE: DNA
  196 <213> ORGANISM: Artificial Sequence
  198 <223> OTHER INFORMATION: Description of Artificial Sequence: ZFP target site
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            endothelial growth factor (VEGF) gene containing
  199
  200
            two 9-base pair target sites
  201
  202 <220> FEATURE:
  203 <221> NAME/KEY: protein_bind
  204 <222> LOCATION: (4)..(12)
  205 <223> OTHER INFORMATION: upstream 9-base pair ZFP VEGF1 target site
  206 <220> FEATURE:
  207 <221> NAME/KEY: protein_bind
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Input Set: N:\Crf3\RULE60\09897844A.RAW Output Set: N:\CRF3\11232001\I897844A.raw

208 <222> LOCATION: (14)(22) 209 <223> OTHER INFORMATION: downstream 9-base pair ZFP VEGF3a target site	
209 <223> OTHER INFORMATION: downstream 9 base part	
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218 <223> OTHER INFORMATION: Description of Alterior	
219 construct targeting upstream 7 babb Pall	
site in VEGF promoter	
221 <220> FEATURE:	
222 <221> NAME/KEY: CDS	
223 <222> LOCATION: (2)(298)	
224 <223> OTHER INFORMATION: VEGF1	
225 <400> SEQUENCE: 14	49
225 <400> SEQUENCE: 14 226 g gta ccc ata cct ggc aag aag aag cag cac atc tgc cac atc cag ggc	
227 Val Pro Ile Pro Gly Lys Lys Gin II 10	
	97
220 Cys Gly Lys Val Tyr Gly Thr Thi Ser Ash Led 123	
	145
233 Trp His Thr Gly Glu Arg Pro Phe Met Cys Im 127	
	193
236 Lys Arg Phe Thr Arg Ser Ser Ash Led Gill Arg Mis 272	
	241
239 Thr Gly Glu Lys Lys Phe Ala Cys Plo Glu Cys 125 275 80	
	289
Arg Ser Asp His Leu Ser Arg His Ite Lys III his Ser Arg His III	
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244 ggt gga tcc	
245 Gly Gly Ser	
247 <210> SEQ ID NO: 15	
248 <211> LENGTH: 99	
240 Z212N TVDE: PRT	
250 <213> ORGANISM: Artificial Sequence	
251 <220> FEATURE:	
TATION TATION TO THE PROPERTY OF THE PROPERTY	
253 construct targeting upstream y base part only	
254 site in VEGF promoter	
256 Val Pro Ile Pro Gly Lys Lys Gir His 110 of	
257 1 5 258 Cys Gly Lys Val Tyr Gly Thr Thr Ser Asn Leu Arg Arg His Leu Arg	
200	

VERIFICATION SUMMARY

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Input Set : N:\Crf3\RULE60\09897844A.RAW
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